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determining the remaining life of the power source based on the used capacity of the power source and the time that the power source has been operating.

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29. (Twice Amended) A method of determining the current status and remaining life of a power source in an implantable neurological tissue stimulator comprising the steps of:

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assessing the voltage of the power source in an implantable neurological tissue stimulator;  
determining, based on the assessed voltage of the power source, where the power source is in its life cycle;

obtaining a used capacity of the power source and a time that the power source has been operating, wherein the used capacity and the time are actual measurements; and

determining the remaining life of the power source based on the used capacity of the power source and the time that the power source has been operating.

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30. (Twice Amended) A device for determining the current status and remaining life of a power source in an implantable neurological tissue stimulator, device comprising:

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an implantable neurological tissue stimulator, the implantable neurological tissue, stimulator having:

a source of power;

a voltage determining system for determining the voltage of the source of power;

a programmer for creating and processing information to be sent to and received from the implantable neurological tissue stimulator, the programmer including a processor and a memory attached thereto;

a system for communicating information between the implantable neurological tissue stimulator and the programmer;

wherein the voltage determining system for determining the voltage of the source of power

passes the determined voltage of the source of power to the system for communication; and

wherein the system for communication passes the determined voltage of the source of power from the implantable neurological tissue stimulator to the programmer and to the processor, and

wherein the processor determines, based on the determined voltage of the source of power, where the source of power is in its life cycle; obtains a used capacity of the power source and a time that the power source has been operating, wherein the used capacity and the time are actual measurements; and determines the remaining life of the power source based on the used capacity of the power source and the time that the power source has been operating.

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